

WHAT IS CLAIMED

1. A radio communication method of communication between two radio stations,
- 5 comprising:
- mutually exchanging information between said two radio stations about one or more radio communication methods with which each radio station is equipped as software by communicating according
- 10 to a first radio communication method defined beforehand;
- selecting a second radio communication method suitable as a communication application to be used for communication between said two radio
- 15 stations from among the one or more radio communication methods with which at least one of the two radio stations is equipped based on the information about the one or more radio communication methods with which each radio station
- 20 is equipped;
- transmitting software of the second radio communication method from a radio station equipped with the second radio communication method to a radio station which is not equipped with the
- 25 second radio communication method according to said first radio communication method, when only one of said radio stations is equipped with the second radio communication method; and
- conducting communications between said
- 30 two radio stations by the communication application according to said second radio communication method based on said software.

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2. The radio communication method as
claimed in claim 1, comprising selecting a radio
communication method that satisfies communication
quality required by said communication application
5 as the second radio communication method.

3. The radio communication method as
claimed in claim 1 or 2, comprising:

checking whether both of the radio
10 stations are equipped with said second radio
communication method or only one of a radio station
of a local site and a radio station to communicate
with is equipped with said second radio
communication method; and
15 transmitting the software of said second
radio communication method from the radio station
of a local site to the radio station to communicate
with when the radio station of a local site
determines that only the radio station of a local
20 site is equipped with said second radio
communication method.

4. The radio communication method as
claimed in claim 3, wherein the radio station of a
25 local site acquires the software of said second
radio communication method transmitted from the
radio station to communicate with when the radio
station of a local site determines that only the
radio station to communicate with is equipped with
30 said second radio communication method.

5. The radio communication method as
claimed in claim 3 or 4, wherein the radio station

or only one of the radio station and the other radio station; and

software transmitting control means to read the software of said second radio

5 communication method from said memory means and transmit the same to said another radio station by said first radio communication method when the radio station determines that said second radio communication method is installed only at the radio
10 station in said checking means,

wherein communication with the other radio station by said communication application according to said second radio communication method is conducted by controlling said radio

15 communication means based on the software of said second radio communication method after transmission of the software of said second radio communication method to the other radio station by said software transmission control means.

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7. The radio station as claimed in claim 6, comprising software acquisition control means to acquire software of said second radio communication method transmitted from the other radio station

25 when said checking step determined that said second radio communication method is equipped only with the other radio station, and to store the same into said memory means.

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8. The radio station as claimed in claim 6 or 7, comprising controlling said radio communication means based on said software by reading the software of said second radio

communication method from said memory means when
said second radio communication method is
determined available in both the radio station and
the other radio station by said checking means.

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9. The radio station as claimed in any
one of claims 6 through 8, wherein said radio
communication method selection means selects a
radio communication method that will satisfy the
communication quality that said communication
application requires as the second radio
communication method suitable for the communication
application concerned.

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10. The radio station as claimed in any
one of claims 6 through 9, which is used as a
mobile station or a base station in a mobile
communications system.

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11. The radio station as claimed in any
one of claims 6 through 9, which is used as a
mobile station in a mobile ad hoc communication
system.

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12. A mobile communication system,
comprising two or more radio stations as claimed in
any one of claims 1 through 9, each of which
functions as one of a mobile station, a relay
station, and a base station.

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